Shaurya Chandhoke

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PROFESSIONAL EXPERIENCE

ADP Roseland, NJ
Full Stack Software Engineer Aug 2020 – Present

- Implemented distributed development system using TypeScript, Spring Boot, GraphQL, and Elasticsearch for API architecture; increased conversion rate by 35%.
- Optimized Angular web app components that parse complex JSON objects to improve page rendering of large documents; improved site efficiency by 10-20 seconds with high SEO score.
- Spearheaded autonomous microservices orchestrated with Docker and Kubernetes to modernize software development processes; boosted work throughput by 15%.
- Compiled monthly Python reports utilizing Spark and Databricks to refine products by analyzing user behavior; resulted in 12%-15% reduction in negative user feedback scores.

ADP Roseland, NJ
Global Product and Technology Intern May 2019 – Aug 2019

- Streamlined 5+ server-side Node.js CLI tools for efficient API library bundling and contract schema validation; presented improvements to project manager for infrastructure-wide integration.
- Collaborated with engineers on NLP via IBM Watson for Slack and WebEx; obtained 100% adoption rate from test groups.
- Operated under agile methodology with emphasis in quality and reliability; instituted custom bug triaging framework within Jenkins CI/CD development environments.

NEW JERSEY INSTITUTE OF TECHNOLOGY Newark, NJ
Embedded Computing Research Assistant Jan 2018 – Dec 2018

- Architected SLAM sensor fusion algorithm in C++ utilizing data marshaling and multithreaded programming techniques on NVIDIA Jetson system-on-module boards; fabricated low-latency solution for NJ Department of Transportation.
- Manufactured cohesive system for connecting A2M8 lidar with Zumo 32U4 robot; published system design proposal to university research department.
- Engineered roadway pothole mapping application in Qt using data streaming pipelines from lidar sensors with focus on cost effectiveness; awarded TechQuest innovation grant for $10,000.

PROJECTS

TENOR AI

- Launched multi-platform personal assistant harnessing Dall-E 2 and custom NLP machine learning algorithms; exceeded 50+ users with average 10+ new daily active users while maintaining scalability and availability.

COMPUTER VISION TOOLKIT

- Produced collection of computer vision tools varying from edge tracing to sky detection using Python and TensorFlow with utilization of GPU resources; attained 30+ toolkit downloads.

GOOGLE TRANSLATE CLONE

- Forged multilingual text translator under the Seq2Seq encoder-decoder machine learning architecture.

BLACK SCHOLES PRICING SYSTEM

- Formulated open source full-stack web application written in Angular and Flask that prices European option contracts using Black Scholes Merton partial differential equation; utilized personally when trading.

FAMA FRENCH ALLOCATION ENGINE

- Designed algorithmic engine leveraging Fama French Three Factor model in Python to simulate long/short trading strategies; yielded 3x investment profit via paper-trading.

SUPERVISED LEARNING CHALLENGE

- Composed custom support vector machine learning model using Python and Scikit-learn to predict large, anonymized dataset with 200+ features; placed within top of class with highest accuracy.

EDUCATION

STEVENS INSTITUTE OF TECHNOLOGY Hoboken, NJ
Master of Science in Machine Learning Sept 2020 – May 2023

NEW JERSEY INSTITUTE OF TECHNOLOGY Newark, NJ
Bachelor of Science in Computer Science Sept 2016 – May 2020

SKILLS AND TECHNOLOGIES

MACHINE LEARNING: Predictive Modeling, Deep Learning, Natural Language Processing, Computer Vision, Quantitative Analysis, Dimensionality Reduction, Convex Optimization.

SOFTWARE ENGINEERING: Agile Development, CI/CD, Object Oriented Programming, Test Driven Development, Serverless Architecture Design, Microservice Architecture Design, Edge Computing.

TECHNOLOGIES: AWS, Elasticsearch, RabbitMQ, Flask, Jenkins, Jupyter, Jira, Git, Docker, Kubernetes, GraphQL, TensorFlow, PyTorch, Keras, Scikit-learn, NLTK, Spark, Databricks, Splunk, PostgreSQL, MongoDB, MySQL, Redis, Selenium, Vault, Dynatrace.

PROGRAMMING: Python, JavaScript, TypeScript, HTML, CSS, Sass, R, Java, C++, C, SQL, Bash, Julia, Rust, Kotlin.